Power BI Test

day, 3 February 2021 4:22 PM

Requirement

You must built a Power BI report that meets the following requirements. I will act as the Business Owner and can answer any questions on design, data, other. Ask if unsure.

You have freedom to choose how it will look based on your understanding of the report consumer and business requirement. Your approach, output and technical implementation will be measured to the consumer and business requirement.

A customer installs CostBot into their Azure Cloud tenancy. CostBot exports the daily costs for all the resources into a table called Costs.

A Resource has Costs, which are further broken down by Meter (e.g., An Azure Virtual Machine might have a Disk which has I/O and Storage and a IP address). All of these records would have the same records in the Costs table for the same day but the Meter IDs would be different. A resource belongs to a single Resource Group and a Resource Group belongs to a single Subscription.

A CostGroup is a non-technical grouping of resources. It can be thought of as a "Project" -e.g. within a single large enterprise there might be 10 different projects happening and each one is consuming cloud resources. The Project Manager or Program Manager is responsible for these costs, so their view of the dashboard should only show the Resource Groups or Subscriptions related to that CostGroup and the Resources inside of those Subscriptions OR Resource Groups

When we talk about the Scope of the report, it is either at the Subscription, Resource Group or CostGroup level. E.g. Show me the costs for the Scope of this CostGroup or these 3 Subscriptions.

Persona: This report will be consumed by executives - CIO/CTO, Program Manager, Project Manager (CostGroup Manager)
Purpose: Displays Summary of Costs at a High Level

Report Filters

Must be able to filter by the Scope and Date:

- Scope:

 All (ie. No filter)
 - Cost Groups
- Subscriptions
 Resource Groups

Date (Period) - Use a Date Table for this. Financial Year Quarter Month Week Day Custom

Report KPIS

 Total Cost KPI for the Scope
 Total Cost for Selected Period Total Cost for Selected Period Total Cost for Previous Period Variance

- Current Month Cost for the selected Scope
 Previous Month
 Variance
- Total Number of Subscriptions for the Scope
- Total Number of Resource Groups for the Scope

Report Charts

Page 1 - Overview

Charts

- Top 5 Cost Groups by Cost
 Top 5 Subscriptions by Cost
 Top 5 Resource Groups by Cost
 Line Chart Last 6 Months including Current

Page 2 - Subscriptions

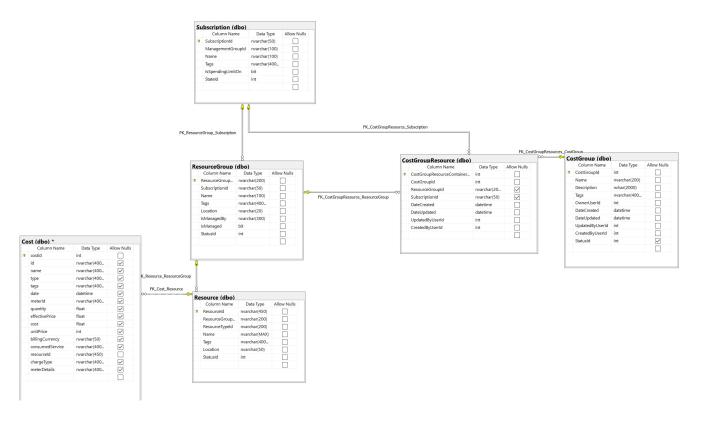
Charts

- Costs By Subscription
- Costs by Cost Groups Costs By Date Granularity + Drill Down
- 4. Total Costs by Location

Non-Functional Requirements

1. It is important that the report looks good. Use this free template here to style it: Numerro - Free Template (gumroad.com)

Azure Resource Hierarchy
A Subscription has 0, 1 or many Resource Groups
A Resource Group has 0, 1 or many Resource Groups
A Resource Group has 0, 1 or many Resources
A Resource has Costs, which are further broken down by Meter (e.g. An Azure Virtual Machine might have a Disk which has I/O and Storage and a IP address). All of these records would have the same records in the Costs table for the same day but the Meter IDs would be different to the same



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Connection Details for Power BI Desktop Server Name: ddbc-copy.database.windows.net Database: CostBotTest UserName: readonlylogin Password: CostBot123

Note: When you connect to the Server your IP address needs to be added to the Server Firewall - you will need to send your IP to me for me to add it.